

**CLEAN VERSION OF REPLACEMENT PARAGRAPHS**  
**IN THE SPECIFICATION PURSUANT TO 37 C.F.R. §1.121(b)**

**IN THE SPECIFICATION**

On page 29, please delete the table beginning on line 1 and ending on page 31, line 12, and replace with the following table:

**TABLE 1**

			Evidence	Length
<b>I. PERIPLASMIC PROTEINS BINDING IRON-SULFUR CLUSTERS</b>				
<b>A. MauM family ferredoxins</b>				
<i>P. denitrificans</i>	MauM	MEARMTGRRKVTRRDAMADAARAVGVACLG GFSLAALVRTASPVDA (SEQ ID NO:50)	VH	46
<i>E. coli</i>	NapG	MSRSAKPQNGRRRFLRDVVRTAGGLAAGVA LGLQQQTARA (SEQ ID NO:51)	VH	41
<b>B. '16Fe' ferredoxin superfamily</b>				
<i>E. coli</i>	NrfC	MTWSRRQFLTGVGVLAASGTAGRVVA (SEQ ID NO:52)	VH	27
<i>D. vulgaris</i>	Hmc2	MDRRRFLTLGSAAGLTATVATAGTAKA (SEQ ID NO:53)	VH	27
<b>C. High potential iron protein (HiPIP)</b>				
<i>T. ferrooxidans</i>	Iro	MSEKDKMITRRDALRNIAVVVGSVATTTMMG VGVADA (SEQ ID NO:54)	EX	37
<b>D. Periplasmically-located [Fe] hydrogenase small subunits</b>				
<i>D. vulgaris</i>	HydB	MQIVNLTRRGFLKAACVVTGGALISIRMTGKA VA (SEQ ID NO:55)	VH	34
<b>E. Periplasmically-located [NiFe] hydrogenase small subunits</b>				



			Evidence	Length
<i>E. coli</i>	HyaA	MNNEETFYQAMRRQGVTRRSFLKYCSLAATS LGLGAGMAPKIAWA (SEQ ID NO:56)	EX	45
+ <i>M. mazei</i>	VhoG	MSTGTTNLVRTLDSMDFLKMDRRTFMKAVSA LGATAFLGTYQTEIVNA (SEQ ID NO:57)	EX	48
<i>D. gigas</i>	HynB	MKCYIGRGKNQVEERLERRGVSRDRFMKFCT AVAVAMGMGPAFAPKVAEA (SEQ ID NO:58)	EX	50
<i>E. coli</i>	HybA	MNRRNFIKAASCGALLTGALPSVSHA (SEQ ID NO:59)	VH	26
<b>F. Membrane-anchored Rieske proteins</b>				
<i>P. denitrificans</i>	FbcF	MSHADEHAGDHGATRRDFLYYATAGAGTVA AGAAAWTLVNQMNP (SEQ ID NO:60)		
+ <i>Synechocystis</i>	PetC	MTQISGSPDVPDLGRRQFMNLLTFGTITGVAA GALYPAVKYLIP (SEQ ID NO:61)		
+ <i>S. acidocaldarius</i>	SoxF	MDRRTFLRLYLLVGAAIAVAPVIKPALDYVGY (SEQ ID NO:62)		
<b>II. PERIPLASMIC PROTEINS BINDING THE MOLYBDOPTERIN COFACTOR</b>				
<b>A. Molybdopterine guanine dinucleotide-binding proteins, some of which also bind an iron-sulfur cluster</b>				
<i>R. sphaeroides</i>	DmsA	MTKLSGQELHAELSRRAFLSYTAAVGALGLCG TSLLAQGARA (SEQ ID NO:63)	EX	42
<i>E. coli</i>	BisZ	MTLTRREFIKHSGIAAGALVVTSAAPLPAWA (SEQ ID NO:64)	VH	31
<i>T. pantotropha</i>	NapA	MTISRRDLLKAQAAGIAAMAANIPLSSQAPA (SEQ ID NO:65)	VH	31
<i>W. succinogenes</i>	FdhA	MSEALSGRGNDRRKFLKMSALAGVAGVSQAV G (SEQ ID NO:66)	EX	32
<i>E. coli</i>	DmsA	MKTKIPDAVLAAEVSRRLVKTТАIGGLAMAS SALTLPFSRIAHA (SEQ ID NO:67)	EX	45



			Evidence	Length
<i>H. influenzae</i>	DmsA	MSNFNQISRRDFVKASSAGAALAVSNLTLPFN VMA (SEQ ID NO:68)	VH	35
<i>S. typhimurium</i>	PhsA	MSISRRSFLQGVGIGCSACALGAFPPGALA (SEQ ID NO:69)	VH	30
<b>B. Molybdopterine cytosine dinucleotide-binding proteins</b>				
<i>P. diminuta</i>	IorB	MKTVLPSVPETVRLSRRGFLVQAGTITCSVAFG SVPA (SEQ ID NO:70)	VH	37
<i>A. polyoxogenes</i>	Ald	MGRNLRFRGLGKDGRRREQASLSRRGFLVTSLGA GVMFGFARPSSA (SEQ ID NO:71)	EX	44
<b>III. PERIPLASMIC ENZYMES WITH POLYNUCLEAR COPPER SITES</b>				
<b>A. Nitrous oxide reductases</b>				
<i>P. stutzeri</i>	NosZ	MSDKDSKNTQVPEKLGLSRRGFLGASAVTGA AVAATALGGAVMTRESWA (SEQ ID NO:72)	EX	50
<b>B. Multicopper oxidase superfamily</b>				
<i>P. syringae</i>	CopA	MESRTSRRTFVKGLAAAGVLGGLGLWRSPSW A (SEQ ID NO:73)	VH	32
<i>E. coli</i>	SufI	MSLSRRQFIQASGIALCAGAVPLKASA (SEQ ID NO:74)	VH	27
<b>IV. METHYLAMINE DEHYDROGENASE SMALL SUBUNITS (TRYPTOPHAN TRYPTOPHYLQUINONE COFACTOR)</b>				
<i>M. extorquens</i>	MauA	MLGKSQFDDLFKMSRKVAGHTSRRGFIGRVG TAVAGVALVPLLVDRRGRVSRANA (SEQ ID NO:75)	EX	57
<b>V. PERIPLASMIC PROTEINS BINDING FLAVIN ADENINE DINUCLEOTIDE</b>				
<i>C. vinosum</i>	FccB	MTLNRRDFIKTSGAAVAAGVILGFPHLAFG (SEQ ID NO:76)	EX	30